The state of the s			Production Services- Typical Projects							
			Time Estimates in							
			5/19/95							
	**************************************			Interface						
			Analyst	Designer	Engnr	Manager	Total			
PROJECT DEFINITION					•	-				
1. Document customer requiren	nents		2			1	3			
a. Project overview										
b. Preliminary story board										
c. Module descriptions										
d. Customization descriptions										
2. Prepare task estimate	,		0.5			0.5	1			
a. Responsibilities - WAIS vs. c	ustomer									
b. Standard modules and scope	9									
c. Customization/new modules										
3. Prepare schedule			0.5				0.5			
4. Finalize sales proposal						0.5	. 0.5			
		Definition Days	3		a commence of the commence of	2	5			
MOCKUP/DESIGN										
1. Organize project team & revis	se schedule					1	1			
2. Prepare system spec			3			1	4			
3. Design storyboard and pages			2	3			5			
4. Prepare mockup and obtain approval				12	3		15			
5. Obtain all data files and desig	n parsing & data	base access			3	1	4			
6. Design custom modules and			1		3	1	. 5			
7. Review mockup and documen	t changes		1	2	1	1	5			
8. Revise task estimate and sch	edule for Installa	tion	0.5		-		0.5			
9. Update system spec			0.5				0.5			
10. Obtain customer sign-off and	d freeze design		1			1	2			
		Design days	9	17	10	6	42			
DEVELOPMENT							•			
1. Implement additional screens			1	2			3			
2. Develop file handling and data	abase parsing		1		15		16			
3. Develop custom modules & modifications					15		15			
4. Revise screens, interfaces and	d flow based on	mockup changes	1	1			2			
5. Conduct system test			2	1	5	2	10			
6. Review final system and correct as necessary			1	1	1	3				
7. Cutover to production status										
8. Monitor performance and fina	l cleanup									
9. Finalize documentation			3		2	1	6			
10. Transition to support organi	zation				1		1			
		Install days	8	5	39	4	56			
	TotalPerson day	/S	20	22	49	12	103			
	Total Person ho	urs	160	176	392	96	824			

		Produ	uction Services-	Typical Project	ets		
		Time Estimates in Person-Days Small Project					
			Interface				
		Analyst	Designer	Engnr	Manager	Total	
PROJECT DEFINITION			*				
1. Document customer requirements							
a. Project overview							
b. Preliminary story board							
c. Module descriptions							
d. Customization descriptions							
2. Prepare task estimate							
a. Responsibilities - WAIS vs. customer							
b. Standard modules and scope							
c. Customization/new modules							
3. Prepare schedule							
4. Finalize sales proposal		0.5			0.5	1	
	Definition Days	0.5			0.5	-	
MOCKUP/DESIGN							
1. Organize project team & revise schedule)					·	
2. Prepare system spec							
3. Design storyboard and pages		1				1	
4. Prepare mockup and obtain approval		1			1	2	
5. Obtain all data files and design parsing &	database access						
6. Design custom modules and modification	1						
7. Review mockup and document changes							
8. Revise task estimate and schedule for In	stallation						
9. Update system spec		1				1	
10. Obtain customer sign-off and freeze de	esian	***					
, i	Design days	3			1	4	
DEVELOPMENT							
Implement additional screens							
Develop file handling and database parsit	ng						
3. Develop custom modules & modification							
4. Revise screens, interfaces and flow base							
5. Conduct system test		1			1	2	
6. Review final system and correct as nece	ssarv						
7. Cutover to production status							
8. Monitor performance and final cleanup		1				1	
Finalize documentation		•				- 	
10. Transition to support organization							
10. Handidan to oupport organization	Install days	2			1	3	
TotalPerso		5.5			2.5	8	
Total Person		3.5			2.0	64	

Pr	oduction §	Services Staffing	ј Мо	del Page 1					
		5/19/95							
Project Mix & Number of Projects		Medium Small			Add-on				
Duration (months)		3		2		1			
Project Mix									
Simultaneous projects		20		66.7		6.7			
Projects per year		80				80			
Revenue/project	\$	117,235	\$	10,559	\$	18,958			
	\$	9,378,788	_	4,223,485		1,516,667	\$ 15,118,939		
Revenue per year Ave revenue/Hour	\$	142		165	\$	1,510,007	ψ 15,115,353		
Ave revenue/noui	Ψ	142	Ψ	103	Ψ	134			
			P	ct of Time			110		
Production Manager		18%		6%		10%			
Analyst		30%		13%		30%			
Human Interface Designer		33%		0%		0%			
Engineer		74%		0%		30%			
		156%		18%		70%			
Person months/project	22	10070		10,0		7070			
Production Manager		0.5		0.1		0.1			
Analyst		0.9		0.3		0.3			
Human Interface Designer		1.0		0.0		0.0			
Engineer		2.2		0.0		0.3			
		0.0				0.0			
		4.7		0.4		0.7			
Person hours based on 8 hour day		824.0		64.0		123.2			
		B.BT*.		O"		A -1-1	T_1-1	Chausahla	Adjust
Staffing Needs		Medium		Small		Add-on 0.7	Total 8.1	Chargeable 90%	Aujus
Production Manager		3.6	-	3.8 8.3			16.4		-
Analyst Decimen		6.1 6.7		0.0		2.0			
Human Interface Designer		14.8	-	0.0		2.0	16.8		
Engineer		14.8		0.0		2.0	10.6	30 /8	
		31.2		12.1		4.7	48.0		